

## INFORMATION TECHNOLOGY CAREER PATHWAY

This Information Technology pathway plan serves as a guide to accompany students, parents, and teachers when planning a student's program/pathway of study to meet the needs and interests of the student's Individualized Learning Plan (ILP).

Education Cluster	Grade	English/ Language Arts (4 credits)	Math (4 credits)	Science (3 credits)	Social Studies (2 credits)	PE/Health (2 credits-0.5 credits per year)	Other	SAMPLE occupations related to this pathway
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<b>Academic Graduation Requirements</b>	9	English 9 English 9 H	Algebra I Geometry Geometry H	Physical Science Physical Science H	US History I US History I H	PE/Health 9	Language (Required for 4 yr. college)	<b>Entry Level:</b> -PC Technician -Electronic Technician <b>Technical Careers:</b> -Computer User Support -Computer Systems Analyst -Broadcast Technician -Engineering Technician -Electro-Mechanical Technician <b>Professional Careers:</b> -Computer Systems Manager -Civil Engineer -Computer Systems Engineer/Architect -Software Developer -Robotics Engineer -Bioinformatics -Robotics Engineer ...AND MORE! <b>Explore careers and related salary in Naviance.</b>
	10	English 10 English 10 H	Geometry-Basic Geometry Algebra II Algebra II H College Algebra (RWU)	Conceptual Chemistry Chemistry Chemistry H	US History II US History II H AP US History II	PE/Health 10	Language (Required for 4 yr. college)	
	11	English 11 English 11 H AP Language & Composition Recommended: SAT Prep: Critical reading & Writing	Intermediate Algebra Algebra II Finite Math Pre-Calculus H Statistics AP Statistics College Algebra (RWU) College Pre-Calculus (RWU)	Conceptual Biology Biology Biology H AP Chemistry AP Physics AP Biology	Western Civilization Western Civilization H AP Psychology AP European History AP US Government & Politics AP Macroeconomics	PE/Health 11	Language (Recommended for 4 yr. college)	
	12	English 12 English 12 H AP Language & Composition AP Literature & Composition AP Research	Dependent on chosen pathway/college requirement/student interest	Dependent on chosen pathway/college requirement/student interest	Dependent on chosen pathway/college requirement/student interest	PE/Health 12	Language (Recommended for 4 yr. college)	
<b>CAREER AND TECHNICAL COURSE PROGRESSION</b>						<b>Work-based Learning</b>	<b>Certifications</b>	
<b>Program Coursework</b>	9	Computer Science Essentials (1.0 credit)	*Students will work with our technology department to earn WBL hours.	*Recommended math courses: Algebra I, Geometry, Algebra II, Pre-Calculus, Calculus, RWU College Algebra and Pre-Calculus	All students will earn 80-hours of work-based learning through in school experiences/ course work.	-NOCTI: IT Workforce Ready Credential  Coursework =3.0 required credits plus one certification.	Recommended: Students obtain additional off-campus WBL hours offered through RIDE and school coordinated events with guidance /college and career coordinator.	
	10	Computer Science Essentials (1.0 credit)						
	11	AP Computer Science Principles (CSP) (1.0 credit) (11 <sup>th</sup> or 12 <sup>th</sup> )						
	12	Cybersecurity (1.0 credit)*May take in 11 <sup>th</sup> grade	Career and Capstone (1.0 credit) (Optional)					